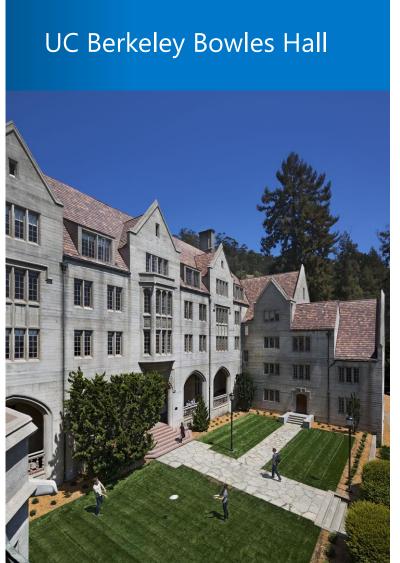


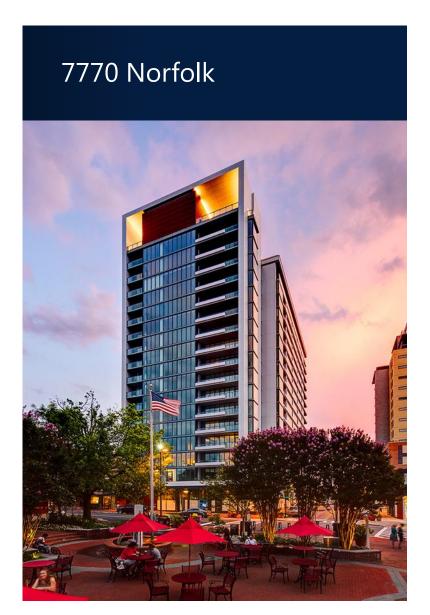
Clark Construction Carbon Disclosure Project Study

Selected Projects Evaluated





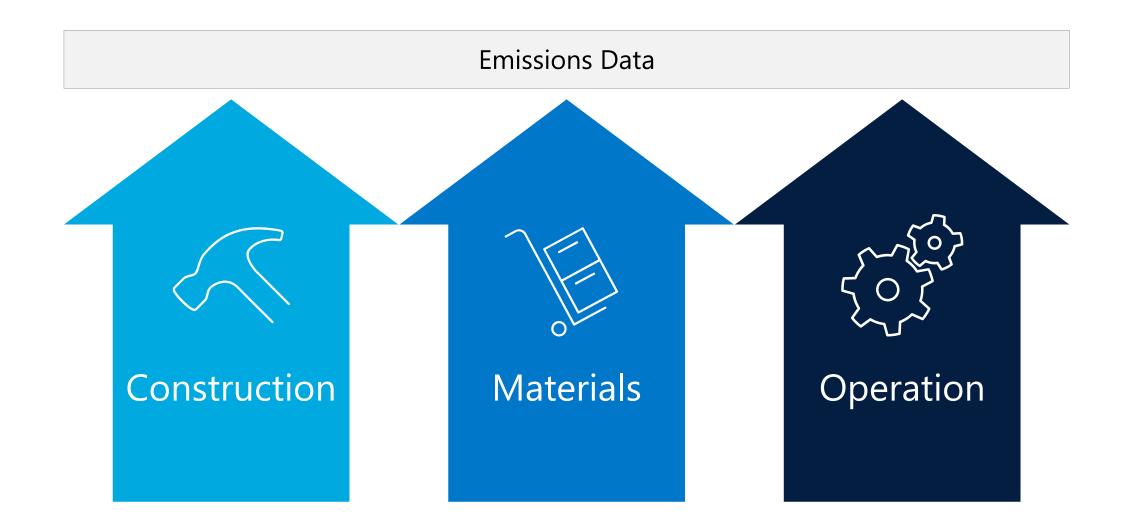




Carbon Footprint



Operational Areas



Operational Boundaries

01

Scope 1
Direct
GHG Emissions

- Fuel: Project
- Fuel: Premises
- Process and Fugitive
- Vehicle Fuel

02

Scope 2
Electricity Indirect
GHG Emissions

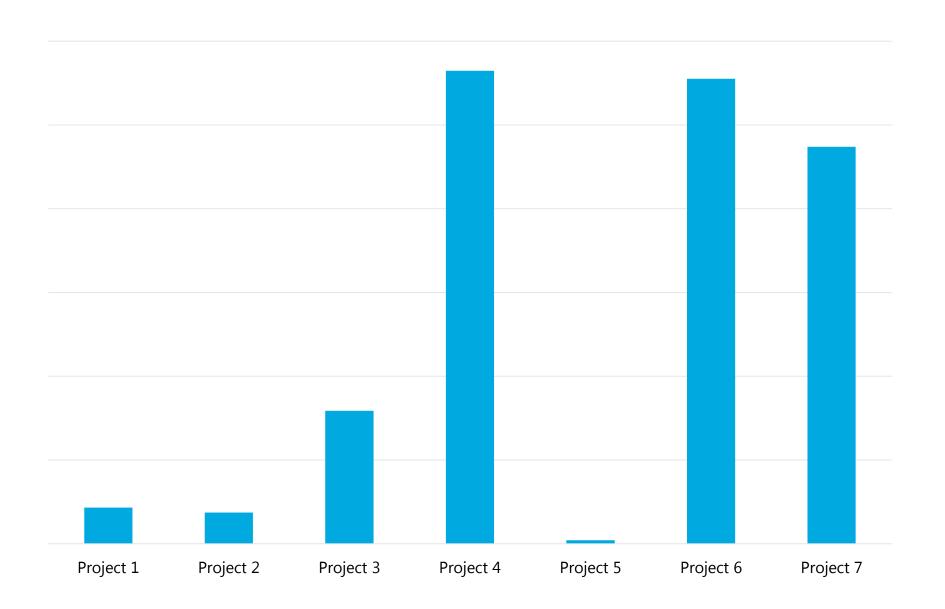
- Electricity: Project
- Electricity: Premises
- Imported Heat
- Vehicle Fuel

03

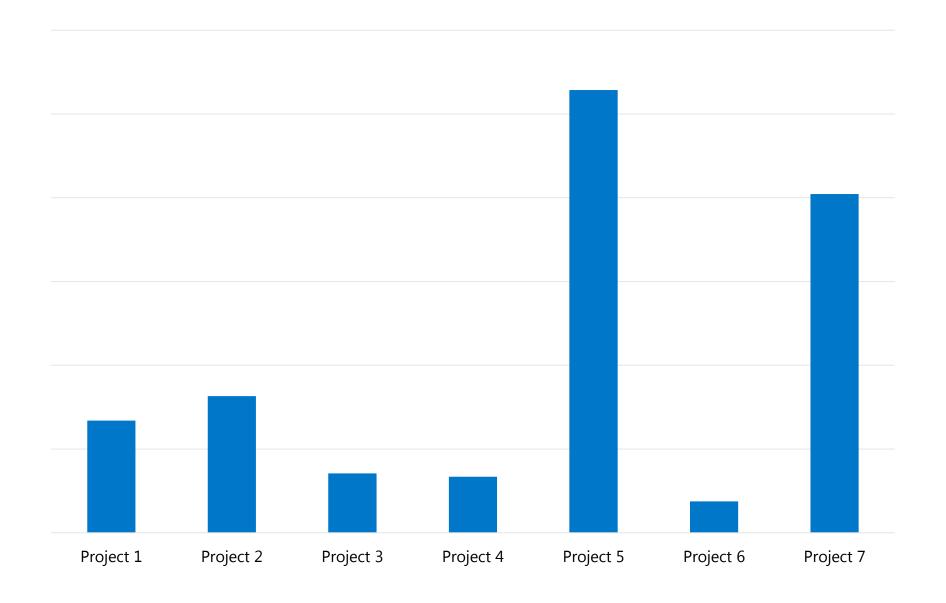
Scope 3
Other Indirect
GHG Emissions

- Vehicle Fuel
- Public Transport
- Subcontractors
- Waste
- Materials
- Product

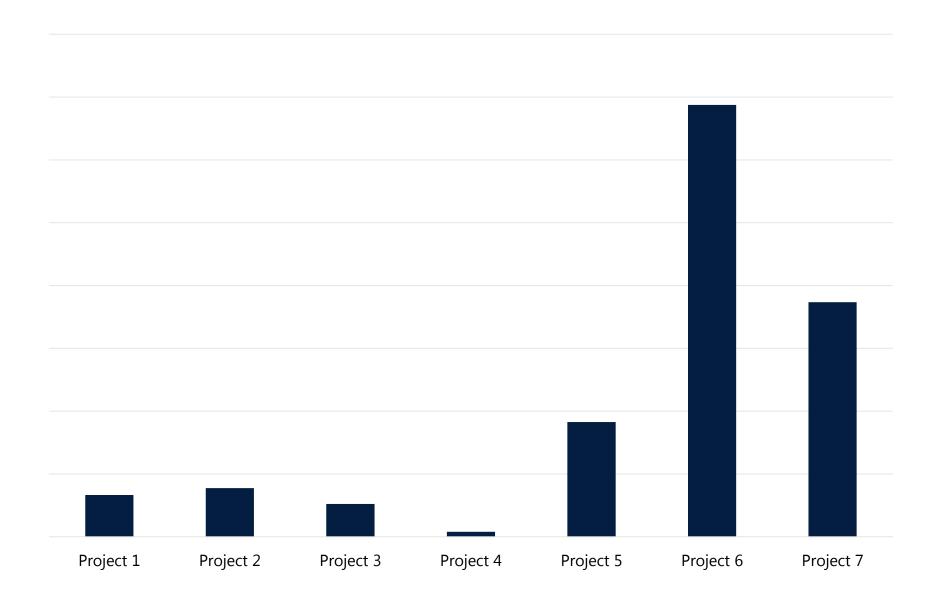
Activity Representing Scope 1



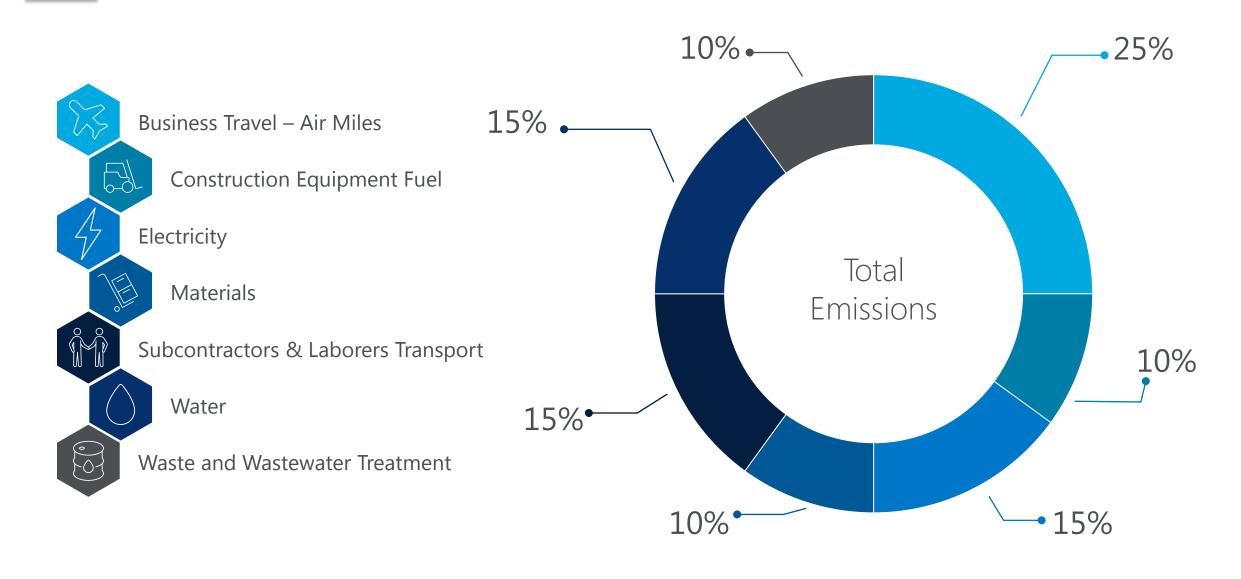
Activity Representing Scope 2



Activity Representing Scope 3



Possible Project Level Carbon Emissions Breakdown



Conclusions

- Construction operations present an opportunity to reduce carbon emissions.
- Every project yields a different carbon footprint and reduction strategies.
- Important to define carbon metrics early, during preconstruction.
- Owners and contractors have ability to affect different carbon sources.
- GSA can provide leadership with its portfolio of new construction.
- Just the beginning. Much more research and analysis needed.